

**09/722441**  
**STN Search Summary**

=> d his

FILE 'CAPLUS' ENTERED AT 16:44:34 ON 28 APR 2002

L1 919 S ASPARTOKINASE OR (ASPART? (2W) KINASE)  
L2 176 S L1 (P) (CORYNEFORM OR CORYNEBACTERI? OR GLUTAMICUM? OR BREVIB  
L3 52 S L2 AND FEEDBACK  
L4 116 S L2 AND (FEEDBACK OR RESIST?)  
L5 116 S L2 AND ((LYS OR LYSINE) (5A) FEEDBACK OR RESIST?)  
L6 87 S L5 AND (THR OR THREONINE)  
L7 87 S L5 (P) (THR OR THREONINE)  
L8 40 S L7 AND PD<2001

L8 ANSWER 1 OF 40 CAPLUS COPYRIGHT 2002 ACS

AN 2000:756870 CAPLUS

TI Novel desensitized aspartokinase of coryneform  
bacteria and its use for producing L-lysine

IN Yokoi, Haruhiko; Ohnishi, Junko; Ochiai, Keiko; Yonetani, Yoshiyuki;  
Ozaki, Akio

SO PCT Int. Appl., 33 pp.

LA Japanese

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000063388	A1	20001026	WO 2000-JP2456	20000414 <--
	EP 1172437	A1	20020116	EP 2000-917314	20000414
PRAI	JP 1999-110437	A	19990419		
	WO 2000-JP2456	W	20000414		

L8 ANSWER 2 OF 40 CAPLUS COPYRIGHT 2002 ACS

AN 1998:493560 CAPLUS

TI Manufacture of L-lysine with a coryneform bacteria carrying mutations in  
several genes of lysine biosynthesis

IN Araki, Masayuki; Sugimoto, Masakazu; Yoshihara, Yasuhiko; Nakamatsu,  
Tsuyoshi

SO Eur. Pat. Appl., 59 pp.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 854189	A2	19980722	EP 1997-121443	19971205 <--
	JP 10215883	A2	19980818	JP 1997-333238	19971203 <--
	CN 1187540	A	19980715	CN 1997-120820	19971205 <--
	BR 9706059	A	19991005	BR 1997-6059	19971205 <--
	US 6004773	A	19991221	US 1997-985908	19971205 <--
PRAI	JP 1996-325659		19961205		

L8 ANSWER 3 OF 40 CAPLUS COPYRIGHT 2002 ACS

AN 1998:441970 CAPLUS

TI Increasing the lysine and threonine content of the seeds of  
plants by introduction of genes for feedback-insensitive biosynthetic  
enzymes

IN Falco, Saverio Carl; Keeler, Sharon Jo; Rice, Janet Ann

SO U.S., 106 pp., Cont.-in-part of U. S. Ser. No. 178,212, abandoned.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5773691	A	19980630	US 1995-474633	19950607 <--
PRAI	US 1992-855414		19920319		
	US 1994-178212		19940106		

L8 ANSWER 4 OF 40 CAPLUS COPYRIGHT 2002 ACS  
AN 1998:405572 CAPLUS  
TI Preparation of L-lysine with transgenic coryneform bacteria  
expressing aspartokinase mutant and diaminopimelate  
decarboxylase and phosphoenolpyruvate carboxylase  
IN Hayakawa, Atsushi; Sugimoto, Masaichi; Yoshihara, Yasuhiko; Nakamatsu, Ko  
SO Jpn. Kokai Tokkyo Koho, 38 pp.  
LA Japanese

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 10165180	A2	19980623	JP 1996-325658	19961205 <--
	CN 1187539	A	19980715	CN 1997-120819	19971205 <--
	EP 857784	A2	19980812	EP 1997-121444	19971205 <--
	BR 9706058	A	19991005	BR 1997-6058	19971205 <--
	US 6221636	B1	20010424	US 1997-985916	19971205
PRAI	JP 1996-325658	A	19961205		

L8 ANSWER 5 OF 40 CAPLUS COPYRIGHT 2002 ACS  
AN 1998:168029 CAPLUS  
TI Lysine production by Brevibacterium linens and its mutants: activities and  
regulation of enzymes of the lysine biosynthetic pathway  
AU Chatterjee, M.  
SO Folia Microbiol. (Prague) (1998), 43(2), 141-146

L8 ANSWER 6 OF 40 CAPLUS COPYRIGHT 2002 ACS  
AN 1997:803726 CAPLUS  
TI Production of L-lysine in genetically engineered coryneform bacteria  
IN Hirano, Seiko; Sugimoto, Masakazu; Nakano, Eiichi; Izui, Masako; Hayakawa,  
Atsushi; Yoshihara, Yasuhiko; Nakamatsu, Tsuyoshi  
SO Eur. Pat. Appl., 63 pp.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 811682	A2	19971210	EP 1997-108764	19970602 <--
	EP 811682	A3	19980610		
	JP 09322774	A2	19971216	JP 1996-142812	19960605 <--
	US 6090597	A	20000718	US 1997-852730	19970507 <--
	CN 1171442	A	19980128	CN 1997-112960	19970605 <--
	BR 9703475	A	19980929	BR 1997-3475	19970605 <--
PRAI	JP 1996-142812	A	19960605		

L8 ANSWER 8 OF 40 CAPLUS COPYRIGHT 2002 ACS  
AN 1997:223575 CAPLUS  
TI Regulation of L-lysine biosynthesis in prototrophic revertants of  
Corynebacterium glutamicum  
AU Hilliger, Matthias; Hertel, Waltraud  
CS Hans-Knoll-Inst. Naturstoff-Forschung e. V., Jena, D-07745, Germany  
SO J. Basic Microbiol. (1997), 37(1), 29-40

L8 ANSWER 9 OF 40 CAPLUS COPYRIGHT 2002 ACS  
AN 1997:141025 CAPLUS  
TI L-lysine and its production with recombinant corynebacteria carrying gene  
lysC mutant and reinforced with other genes  
IN Otsuna, Seiko; Sugimoto, Masakazu; Izui, Masako; Hayakawa, Atsushi;  
Nakano, Eiichi; Kobayashi, Masaki; Yoshihara, Yasuhiko; Nakamatsu,  
Tsuyoshi  
SO PCT Int. Appl., 90 pp.  
LA Japanese

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9640934	A1	19961219	WO 1996-JP1511	19960605 <--
	CA 2224058	AA	19961219	CA 1996-2224058	19960605 <--
	AU 9659107	A1	19961230	AU 1996-59107	19960605 <--
	AU 705550	B2	19990527		
	ZA 9604665	A	19970107	ZA 1996-4665	19960605 <--
	BR 9606379	A	19970812	BR 1996-6379	19960605 <--
	EP 841395	A1	19980513	EP 1996-916305	19960605 <--
	CN 1192242	A	19980902	CN 1996-195952	19960605 <--
	JP 3106501	B2	20001106	JP 1997-500307	19960605 <--
PRAI	JP 1995-140614	A	19950607		
	WO 1996-JP1511	W	19960605		

L8 ANSWER 13 OF 40 CAPLUS COPYRIGHT 2002 ACS

AN 1995:951305 CAPLUS

TI Lysine and its manufacture with coryneform bacteria transformed with an aspartokinase mutant and a homoserine dehydrogenase mutant

IN Sugimoto, Masakazu; Usuda, Yoshihiro; Suzuki, Tomoko; Tanaka, Akiko; Matsui, Hiroshi

SO PCT Int. Appl., 77 pp.

LA Japanese

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9523864	A1	19950908	WO 1995-JP268	19950223 <--
	EP 754756	A1	19970122	EP 1995-909969	19950223 <--
	CN 1147273	A	19970409	CN 1995-192867	19950223 <--
	US 5766925	A	19980616	US 1996-700359	19961008 <--
PRAI	JP 1994-35019		19940304		
	WO 1995-JP268		19950223		

L8 ANSWER 15 OF 40 CAPLUS COPYRIGHT 2002 ACS

AN 1995:540472 CAPLUS

TI Effect of different levels of aspartokinase on the lysine production by Corynebacterium lactofermentum

AU Jetten, M. S. M.; Follettie, M. T.; Sinskey, A. J.

CS Dep. Microbiol., Delft Univ. Technol., Delft, 2628 BC, Neth.

SO Appl. Microbiol. Biotechnol. (1995), 43(1), 76-82

L8 ANSWER 16 OF 40 CAPLUS COPYRIGHT 2002 ACS

AN 1994:317353 CAPLUS

TI Molecular cloning of gene for aspartokinase of wild-type and mutant Corynebacterium

IN Sugimoto, Masakazu; Ogawa, Yuri; Suzuki, Tomoko; Tanaka, Akiko; Matsui, Yutaka

SO Jpn. Kokai Tokkyo Koho, 28 pp.

LA Japanese

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 06062866	A2	19940308	JP 1993-101450	19930427 <--
	WO 9425605	A1	19941110	WO 1993-JP1809	19931214 <--
	EP 699759	A1	19960306	EP 1994-902116	19931214 <--
	US 5688671	A	19971118	US 1995-532828	19951027 <--
PRAI	JP 1992-110292		19920428		
	JP 1993-101450		19930427		
	WO 1993-JP1809		19931214		

L8 ANSWER 17 OF 40 CAPLUS COPYRIGHT 2002 ACS  
AN 1994:50461 CAPLUS  
TI Increasing the lysine and threonine content of the seeds of plants by introduction of genes for feedback-insensitive biosynthetic enzymes  
IN Falco, Saverio Carl  
SO PCT Int. Appl., 139 pp.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9319190	A1	19930930	WO 1993-US2480	19930318 <--
	AU 9339233	A1	19931021	AU 1993-39233	19930318 <--
	AU 675933	B2	19970227		
	EP 640141	A1	19950301	EP 1993-908395	19930318 <--
	JP 07504821	T2	19950601	JP 1993-516720	19930318 <--
	ZA 9301978	A	19940919	ZA 1993-1978	19930319 <--
PRAI	US 1992-855414		19920319		
	WO 1993-US2480		19930318		

L8 ANSWER 23 OF 40 CAPLUS COPYRIGHT 2002 ACS  
AN 1992:39723 CAPLUS  
TI Molecular cloning and expression of s-(2-aminoethyl)-L-cysteine resistant aspartokinase gene of Corynebacterium glutamicum  
AU Han, Jong Kwon; Oh, Jong Won; Lee, Hyune Hwan; Chung, Stephen; Hyun, Hyung Hwan; Lee, Jae Heung  
SO Biotechnol. Lett. (1991), 13(10), 721-6

L8 ANSWER 24 OF 40 CAPLUS COPYRIGHT 2002 ACS  
AN 1991:78421 CAPLUS  
TI Isolation and properties of lysine-producing mutants with feedback-resistant aspartokinase derived from a Brevibacterium flavum strain with citrate synthase- and pyruvate kinase-defects and feedback-resistant phosphoenolpyruvate carboxylase  
AU Shio, Isamu; Yoshino, Hiroshi; Sugimoto, Shinichi  
SO Agric. Biol. Chem. (1990), 54(12), 3275-82

L8 ANSWER 28 OF 40 CAPLUS COPYRIGHT 2002 ACS  
AN 1990:192782 CAPLUS  
TI Cloning of a DNA fragment from Corynebacterium glutamicum conferring aminoethyl cysteine resistance and feedback resistance to aspartokinase  
AU Thierbach, Georg; Kalinowski, Joern; Bachmann, Bernd; Puehler, Alfred.  
SO Appl. Microbiol. Biotechnol. (1990), 32(4), 4443-8

L8 ANSWER 29 OF 40 CAPLUS COPYRIGHT 2002 ACS  
AN 1989:591191 CAPLUS  
TI Isolation and properties of dihydrodipicolinate synthase-defective threonine-producing mutants from a Brevibacterium flavum strain with feedback-sensitive aspartokinase  
AU Shio, Isamu; Yokota, Atsushi; Kawamura, Kazue  
SO Agric. Biol. Chem. (1989), 53(8), 2169-75

L8 ANSWER 31 OF 40 CAPLUS COPYRIGHT 2002 ACS  
AN 1987:614603 CAPLUS  
TI Effect of pyruvate kinase deficiency on L-lysine productivities  
of mutants with feedback-resistant aspartokinases  
AU Shiio, Isamu; Yokota, Atsushi; Sugimoto, Shinichi  
SO Agric. Biol. Chem. (1987), 51(9), 2485-93

L8 ANSWER 39 OF 40 CAPLUS COPYRIGHT 2002 ACS  
AN 1971:49997 CAPLUS  
TI Genetically desensitized aspartate kinase to the  
concerted feedback inhibition in *Brevibacterium flavum*  
AU Shiio, Isamu; Miyajima, Ryuichi; Sano, Konosuke  
SO J. Biochem. (Tokyo) (1970), 68(5), 701-10